Met Office

NEWS

Record breaking temperatures for the UK

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For the first time on record temperatures in the UK have exceeded 40°C.

A provisional temperature of 40.3°C was recorded at Coningsby at 15:12 yesterday (19 July) which, if confirmed, will beat the previous record of 38.7°C set in 2019 by 1.5°C.

With temperatures continuing to climb through the afternoon we will have to wait to see what the new record will actually be. New temperature records could also be set for Wales and Scotland.

The first ever Red Extreme Heat warning is still in place across parts of England together with a larger Amber Extreme heat warning, covering much of England, Wales and southern Scotland. With the extreme heat today comes the risk of thunderstorms,particularly in parts of the southwest today and, later, the northeast of England. A Yellow Thunderstorm Warning has been issued for parts of the Southeast tomorrow.

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Temperatures remained above 20°C in many areas last night and overnight temperature records are expected to have been broken with 25.8°C provisionally being recorded in Kenley in Surrey and 24.5°C in Aberporth in Wales, exceeding the previous highest daily minimum record of 23.9°C, recorded in Brighton on 3rd August 1990.

Met Office Chief Meteorologist Neil Armstrong, said “We are continuing to see exceptional temperatures in the UK today and it is important people plan for the heat and consider changing their routines. This level of heat can have adverse health effects.”

“Along with the extreme heat we are now seeing an increasing risk of thunderstorms particularly in the Northeast of England this afternoon (Tuesday) and in the south tomorrow (Wednesday).”

The step up in warning level to red last week complemented the increase in the current Heat Health Warning to Level 4 for England by the UK Health Security Agency.

What happens next

Although it will be an exceptionally hot day for many, particularly in central and eastern England, however, it will become cloudier and less hot as we go through the day in the west with a chance of a few showers or thunderstorms. The thunderstorm risks move to the east of England later this afternoon with the potential some isolated heavy showers, gusty winds and lightning.

Temperatures are expected to start to return closer to normal for the time of year as we go through the rest of the week with cooler air pushing across the country from the west.

You can find the latest forecast on our website, by following us on Twitter and Facebook, as well as on our mobile app which is available for iPhone from the App store and for Android from the Google Play store. Keep track of current weather warnings on the weather warning page.

Is this due to climate change?

“We hoped we wouldn’t get to this situation but for the first time ever we are forecasting greater than 40°C in the UK. “Climate attribution scientist at the Met Office, Dr Nikos Christidis, said “In a recent study we found that the likelihood of extremely hot days in the UK has been increasing and will continue to do so during the course of the century, with the most extreme temperatures expected to be observed in the southeast of England.

“Climate change has already influenced the likelihood of temperature extremes in the UK. The chances of seeing 40°C days in the UK could be as much as 10 times more likely in the current climate than under a natural climate unaffected by human influence. The likelihood of exceeding 40°C anywhere in the UK in a given year has also been rapidly increasing, and, even with current pledges on emissions reductions, such extremes could be taking place every 15 years in the climate of 2100.”

A recent Met Office study found that summers which see days above 40°C somewhere in the UK have a return time of 100-300 years at present, even with current pledges on emissions reductions this can decrease to 15 years by 2100.

Extreme heat events do occur within natural climate variation due to changes in global weather patterns. However, the increase in the frequency, duration, and intensity of these events over recent decades is clearly linked to the observed warming of the planet and can be attributed to human activity.

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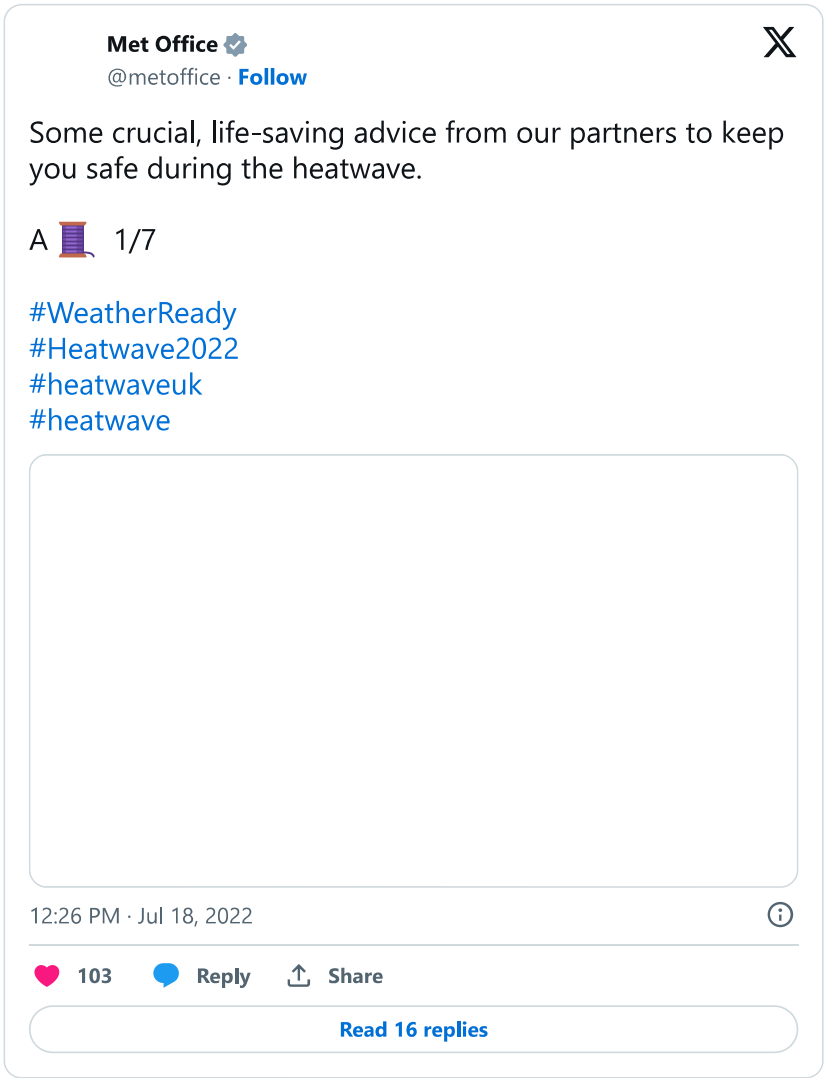
Whilst a 1°C background temperature increase may not seem significant, the resulting increase in the severity of extreme heat events is already evident in the observed record. This has widespread and significant impacts.

Advice



A Level 4 UK Health Security Agency Heat Health Alert has been issued for Monday and Tuesday. This is level of alert is used when a heatwave is so severe and/or prolonged that its effects extend outside the health and social care system. At this level, illness may occur among the fit and healthy, and not just in high-risk groups.

Dr Agostinho Sousa, Head of Extreme Events and Health Protection at UKHSA, said: "Heat-health alerts have now been issued to the majority of the country, with temperatures set to remain consistently high throughout the duration of the weekend and the start of next week.

"It is important to keep yourself hydrated and to find shade where possible when UV rays are strongest, between 11am and 3pm.

"If you have vulnerable family, friends and neighbours, make sure they are aware of how they can keep themselves protected from the warm weather."

Peter Jenkins, Director of Campaigns, Water UK said: "Water companies are seeing substantial demand during this extremely hot weather. We can all help ensure there's enough to go around by being mindful of the amount of water we use while ensuring we stay hydrated and safe.

"By making just small changes indoors or in the garden you can have a big impact on our water consumption. Our Water's Worth Saving campaign has a host of helpful top-tips showing the simple things we can all do to save this precious resource, so it remains readily available now and in the future."

Mel Clarke, Customer Service Director for Operations at National Highways, said: "It is always important to plan ahead for your journey and this advice is no different during periods of hot weather. Our advice is that everyone should check their vehicles, such as tyres, coolant and oil levels, before heading out."

Find out more about driving in hot weather with National Highways.

Government advice is that 999 services should be used in emergencies only; seek advice from 111 if you need non-emergency health advice.

Top ways to stay safe when the heat arrives are to:

- Look out for those who may struggle to keep themselves cool and hydrated. Older people, those with underlying conditions and those who live alone are particularly at risk.
- If you live alone, ask a relative or friend to phone to check that you are not having difficulties during periods of extreme heat.
- Stay cool indoors: Close curtains on rooms that face the sun to keep indoor spaces cooler and remember it may be cooler outdoors than indoors.
- If going outdoors, use cool spaces considerately.
- Drink plenty of fluids and avoid excess alcohol.
- Never leave anyone in a closed, parked vehicle, especially infants, young children or animals.
- Try to keep out of the sun between 11am to 3pm, when the UV rays are strongest.
- Walk in the shade, apply sunscreen and wear a wide-brimmed hat, if you have to go out in the heat.
- Avoid physical exertion in the hottest parts of the day.
- Make sure you take water with you, if you are travelling.
- Check the latest weather forecast and temperature warnings – you can find these on TV, radio, mobile app or website.
- During warm weather going for a swim can provide much welcomed relief. If you are going into open water to cool down, take care and follow local safety advice.

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